

**REMARKS**

Claims 2-6 and 21-34 are all the claims pending in the application.

***Allowable Subject Matter***

Claims 3-6, 21-24 and 26-34 are indicated as being allowed.

***Claim Rejections***

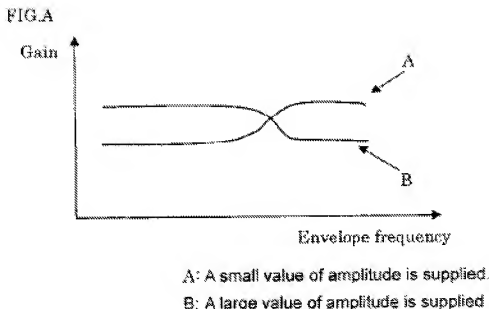
Claim 2 is rejected under 35 U.S.C. § 102(b) as being anticipated over Dening et al. (U.S. Patent No. 6,369,656; hereinafter “Dening”). Claim 25 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Dening. For at least the following reasons, Applicant respectfully traverses the rejection.

Claims 2 is amended to more clearly recite the claimed invention. Specifically, claim 2 as amended, recites an amplifier comprising:

“a mechanism which compresses a larger instantaneous value, with respect to a smaller instantaneous value, of an amplitude provided as an input to said amplifier”.

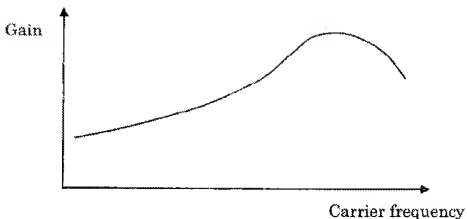
In an exemplary non-limiting embodiment of the present invention, in the claimed mechanism, when the larger instantaneous value of amplitude is supplied as the input to the amplifier, this causes a change in impedance, thereby compressing the instantaneous value of the amplitude (paragraphs 76-77 and 110-111; Figs. 20 and 36). For example, Fig. A below shows the relationship between an envelope frequency and gain in the mechanism. It will be appreciated that the foregoing remarks relate to the invention in a general sense, the remarks are

not necessarily limitative of any claims and are intended only to help the Examiner better understand aspects of the claims.



The Examiner asserts that the capacitor C1 of Dening corresponds to the claimed mechanism. However, in the amplifier of Dening, the capacitor C1 operates to implement a certain function regardless of the value of amplitude which is supplied as an input to the amplifier. That is, regardless of whether a large instantaneous value of amplitude or small instantaneous value of amplitude is supplied as the input, the capacitor performs the same function on both. For example, Fig. B below shows the relationship between a carrier frequency and gain in the capacitor.

FIG. B



Therefore, Denning fails to teach or suggest at least the claimed mechanism. According to the system of Denning, since a basic wave is in phase with an IM3 signal, the claimed compression cannot be obtained. Accordingly, Applicant respectfully submits that claim 2 is patentable over the applied reference. Claim 25 is amended and recites one or more features analogous to those discussed above with respect to claim 2, and is therefore patentable at least for reasons analogous to those given above with respect to claim 2.

### ***Conclusion***

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

AMENDMENT UNDER 37 C.F.R. § 1.111  
U.S. Appln. No.: 10/585,206

Attorney Docket No.: Q95825

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

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CUSTOMER NUMBER

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